New Forever Tiles Collection

Scratch-free & Germfree

*with reference to test reports shown inside

germfree tiles

MOH RATING 8

 Orientbell Tiles®
Go germfree with Orientbell Tiles.

Forever Tiles are Germfree*!

Forever Tiles
1. High Compact Sintered Body With Low Water Absorption
2. Special FT Glaze With Engobe & 2 Glaze Coatings
3. High Resolution Special FT Print
4. Special Formulated High Resistance FT Coating

Orientbell’s Scratch Resistant Range-
In office, airports and similar high traffic areas prone to rough use, scratch and abrasion resistance is desired. Orientbell’s Forever Tiles are developed with such applications in mind. Orientbell has applied for a patent for corundum based coating composition as well as its method of applying it on the tiles.

*Results achieved under standard test conditions as per JIS Antimicrobial Surface Test.
#PapaJaisiProtection with Germfree Tiles.
Work effectively between cleaning cycles.

Available in wide range of colors, designs & sizes
For details, contact us at: +91 87507 33333 or
Visit :www.orientbell.com/germ-free-tiles

Effect of Orientbell Germfree Tiles on a germ colony as seen under a microscope with the help of luminescent bio-markers
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Listed on BSE (530365) for 20+ years. And also on NSE (ORIENTBELL).
Maksi
600x600mm / Matte

GFT BHF
MAKSI DOT SILVER

GFT BHF
MAKSI DOT GREY
Smoky
600x600mm / Matte

GFT BHF
SMOKY TAUPE LT

GFT BHF
SMOKY TAUPE DK
Preview Shown: GFT BHF SAND CREAM, GFT BHF SAND BEIGE, HW6 DIAMOND CREMA & HW6 DIAMOND SANDUNE
Sand
600x600mm / Matte

GFT BHF
SAND CREAM

GFT BHF
SAND BEIGE
Travertine
600x600mm / Matte

GFT BHF TRAVERTINE BEIGE

GFT BHF TRAVERTINE BROWN
600x600 mm | Matte | FT+GFT

GFT BHF
GRANITE GREY
## Test Certificate

**Shriram Institute for Industrial Research**

**A Unit of Shriram Scientific and Industrial Research Foundation**

### TEST CERTIFICATE

**000247058**

**TEST RESULTS**

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### Certification

**Certificate No:** 000247058

**Certificate Code:**

- A
- B
- C

**Product Code:**

<table>
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<tr>
<th>Product Code</th>
<th>Description</th>
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<tr>
<td>000247058</td>
<td>Germfree Tiles</td>
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**Date of Issue:** 30th November 2009

**Expiry Date:** 29th November 2010

**Issued by:**

- Shriram Institute for Industrial Research
- Shriram Scientific and Industrial Research Foundation

**Issued to:**

- [Name]
- [Address]

**Inspector:**

- [Name]
- [Signature]

**Witness:**

- [Name]
- [Signature]

**Revised:**

- [Name]
- [Signature]

**Checked:**

- [Name]
- [Signature]

**Approved:**

- [Name]
- [Signature]

**Note:** All data is based on the data obtained from the test results.
## TECHNICAL SPECIFICATIONS

### Packing Details

<table>
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<tr>
<th>Size</th>
<th>No. of Tiles</th>
<th>Covered Area Per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>(In mm.)</td>
<td>Per Carton</td>
<td>(In Sq. Mtr.)</td>
</tr>
<tr>
<td>600x600 (HSK)</td>
<td>4</td>
<td>1.44</td>
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### Characteristics

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<th>Features</th>
<th>Standard as Per IS 15622:2017 Group Bila</th>
<th>OBL Norms</th>
<th>Testing Methods</th>
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<tr>
<td>Dimension &amp; Surface Quality</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deviation in Length &amp; Width</td>
<td>±0.1%</td>
<td>±0.05%</td>
<td></td>
</tr>
<tr>
<td>Deviation in Thickness</td>
<td>±5.0%</td>
<td>±3.0%</td>
<td>IS 13630 Part 1</td>
</tr>
<tr>
<td>Straightness of Sides</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td></td>
</tr>
<tr>
<td>Rectangularity</td>
<td>±0.1%</td>
<td>±0.1%</td>
<td></td>
</tr>
<tr>
<td>Surface Flatness</td>
<td>±0.5%</td>
<td>±0.2%</td>
<td></td>
</tr>
<tr>
<td>Surface Quality</td>
<td>Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile</td>
<td>Conforms</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Properties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Absorption (%)</td>
<td>3-6%</td>
<td>3-6%</td>
<td>IS 13630 Part 2</td>
</tr>
<tr>
<td>Modulus of Rupture in N/mm²</td>
<td>Arg 22, Individual 27 Min</td>
<td>Min 28 N</td>
<td>IS 13630 Part 6</td>
</tr>
<tr>
<td>Breaking Strength N</td>
<td>600 N Min for thickness &lt; 7.5mm, 1000 N Min for thickness ≥ 7.5 mm</td>
<td>1000 N Min</td>
<td></td>
</tr>
<tr>
<td>Moisture Expansion</td>
<td>0.02, Max</td>
<td>0.02 Max</td>
<td>IS 13630 Part 3</td>
</tr>
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<td>Scratch Hardness (Moh’s Scale)</td>
<td>5, Min</td>
<td>8</td>
<td>IS 13630 Part 13</td>
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<tr>
<td>Resistance to Surface Abrasion of glazed tiles Class I to V (Applicable for floor applications only)</td>
<td>Class II, Min</td>
<td>Class IV</td>
<td>IS 13630 Part 11</td>
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<tr>
<td>Linear thermal expansion Co-efficient</td>
<td>9x10⁻⁶, Max</td>
<td>Conforms</td>
<td>IS 13630 Part 4</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>10 Cycles, Min</td>
<td>Passed</td>
<td>IS 13630 Part 5</td>
</tr>
<tr>
<td>Crazing Resistance</td>
<td>4 Cycles at 7.5 Bar, Min</td>
<td>Passed</td>
<td>IS 13630 Part 9</td>
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<tr>
<td>Impact Resistance</td>
<td>0.55, Min</td>
<td>0.6</td>
<td>IS 13630 Part 14</td>
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<tr>
<td>Frost Resistance</td>
<td>Required if agreed to between manufacturer and purchaser</td>
<td>Resistant</td>
<td>IS 13630 Part 10</td>
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<tr>
<td>Bulk density g/cc</td>
<td>2.0, Min</td>
<td>2.0, Min</td>
<td>IS 13630 Part 2</td>
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<tr>
<td>Chemical Properties</td>
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<td>Stain Resistance Glazed tiles</td>
<td>Class I, Min</td>
<td>Class -1</td>
<td>IS 13630 Part 8</td>
</tr>
<tr>
<td>Resistance to household chemicals</td>
<td>Class AA, Min</td>
<td>Class AA</td>
<td></td>
</tr>
<tr>
<td>Resistance to acids and alkalis</td>
<td>Class AA, Min</td>
<td>Class AA</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Certain amount of Size and Shade Variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

Every effort has been made to ensure the accuracy of the information given. However, the company reserves the right to delete & change, any of the items, colors, sizes & technical specifications without any prior notice.
ORIENT BELL TILE BOUTIQUE

CHANDIGARH
SCO - 6, First Floor, Sector 7-C, Madhya Marg, Chandigarh-160 019,
Tel.: +91 172 4624 342

CHENNAI
New No: 85, Old No: 30, Maharaja Tower, 2nd Floor, 1st Avenue,
Asnok Nagar, (Above Kotak Mahindra Bank), Chennai-600 083,
Tel.: +91 44 4273 8687

COCHIN
“SURYA GAYATRI”. Building No. 32& B3, Puthya Road, New Junction,
(Opposite Holiday Inn Hotel) Ernakulam By Pass Road, Cochin-682 031
Tel.: +91 97457 68058

COIMBATORE
11, 1st Floor, Venkata Samy Road (East), R.S. Puram,
Coimbatore-641 002,
Tel.: +91 89799 41906

DEHRADUN
Duggal Complex (Near Karnal Palace Hotel), GMS Road,
Dehradun-248 001,
Tel.: +91 97197 01064

KOLKATA
8/1, Burdwan Road, Alipore, Kolkata-700 027,
Tel.: +91 33 4068 40467

LUCKNOW
Raj Rani Apartment, Ground Floor, Near Beej Nigam, Badhshah Nagar Railway
Station, Lucknow-226 006,
Tel.: +91 99847 86404

NEW DELHI
M-47, GK-II, M Block, New Delhi-110 048,
Tel.: +91 11 4068 7468/69

PUNE
Shop No. 3 and 4, A Tower Vega Centre, C.T.S No. 710, Final Plot No. 401/1,
Shankarasheth Road, Gultekdi, Swargate, Pune-411 037
Tel.: +91 73810 72247

VADODRA DISPLAY CENTRE
78-79, 2nd Floor, Surya Kiran Complex, Beside Banker Heart Institute,
Old Padra Road, Vadodara-390007, Gujarat
Tel.: +91 98754 14113